

SEQUENCE LISTING

<110> Pharmacia and Upjohn

<120> Crystallization and Structure Determination of
Staphylococcus Aureus Nad Synthetase

<130> 268.63150101

<140> Unassigned

<141> 2001-01-30

<150> 60/179,261

<151> 2000-01-31

<160> 2

<170> PatentIn Ver. 2.1

<210> 1

<211> 282

<212> PRT

<213> S.aureus

<400> 1

Met	Gly	Ser	Lys	Leu	Gln	Asp	Val	Ile	Val	Gln	Glu	Met	Lys	Val	Lys
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Lys	Arg	Ile	Asp	Ser	Ala	Glu	Glu	Ile	Met	Glu	Leu	Lys	Gln	Phe	Ile
			20					25					30		

Lys	Asn	Tyr	Val	Gln	Ser	His	Ser	Phe	Ile	Lys	Ser	Leu	Val	Leu	Gly
		35					40					45			

Ile	Ser	Gly	Gly	Gln	Asp	Ser	Thr	Leu	Val	Gly	Lys	Leu	Val	Gln	Met
	50					55					60				

Ser	Val	Asn	Glu	Leu	Arg	Glu	Glu	Gly	Ile	Asp	Cys	Thr	Phe	Ile	Ala
65					70					75					80

Val	Lys	Leu	Pro	Tyr	Gly	Val	Gln	Lys	Asp	Ala	Asp	Glu	Val	Glu	Gln
			85						90					95	

Ala	Leu	Arg	Phe	Ile	Glu	Pro	Asp	Glu	Ile	Val	Thr	Val	Asn	Ile	Lys
		100						105					110		

Pro	Ala	Val	Asp	Gln	Ser	Val	Gln	Ser	Leu	Lys	Glu	Ala	Gly	Ile	Val
		115					120					125			

Leu Thr Asp Phe Gln Lys Gly Asn Glu Lys Ala Arg Glu Arg Met Lys
130 135 140

Val Gln Phe Ser Ile Ala Ser Asn Arg Gln Gly Ile Val Val Gly Thr
145 150 155 160

Asp His Ser Ala Glu Asn Ile Thr Gly Phe Tyr Thr Lys Tyr Gly Asp
165 170 175

Gly Ala Ala Asp Ile Ala Pro Ile Phe Gly Leu Asn Lys Arg Gln Gly
180 185 190

Arg Gln Leu Leu Ala Tyr Leu Gly Ala Pro Lys Glu Leu Tyr Glu Lys
195 200 205

Thr Pro Thr Ala Asp Leu Glu Asp Asp Lys Pro Gln Leu Pro Asp Glu
210 215 220

Asp Ala Leu Gly Val Thr Tyr Glu Ala Ile Asp Asn Tyr Leu Glu Gly
225 230 235 240

Lys Pro Val Thr Pro Glu Glu Gln Lys Val Ile Glu Asn His Tyr Ile
245 250 255

Arg Asn Ala His Lys Arg Glu Leu Ala Tyr Thr Arg Tyr Thr Trp Pro
260 265 270

Lys Ser Arg Ser His His His His His His
275 280

<210> 2

<211> 271

<212> PRT

<213> B.subtilis

<400> 2

Ser Met Gln Glu Lys Ile Met Arg Glu Leu His Val Lys Pro Ser Ile
1 5 10 15

Asp Pro Lys Gln Glu Ile Glu Asp Arg Val Asn Phe Leu Lys Gln Tyr
20 25 30

Val Lys Lys Thr Gly Ala Lys Gly Phe Val Leu Gly Ile Ser Gly Gly
35 40 45

Gln Asp Ser Thr Leu Ala Gly Arg Leu Ala Gln Leu Ala Val Glu Ser

50	55	60
Ile Arg Glu Glu Gly Gly Asp Ala Gln Phe Ile Ala Val Arg Leu Pro		
65	70	75 80
His Gly Thr Gln Gln Asp Glu Asp Asp Ala Gln Leu Ala Leu Lys Phe		
	85	90 95
Ile Lys Pro Asp Lys Ser Trp Lys Phe Asp Ile Lys Ser Thr Val Ser		
	100	105 110
Ala Phe Ser Asp Gln Tyr Gln Gln Glu Thr Gly Asp Gln Leu Thr Asp		
	115	120 125
Phe Asn Lys Gly Asn Val Lys Ala Arg Thr Arg Met Ile Ala Gln Tyr		
	130	135 140
Ala Ile Gly Gly Gln Glu Gly Leu Leu Val Leu Gly Thr Asp His Ala		
145	150	155 160
Ala Glu Ala Val Thr Gly Phe Phe Thr Lys Tyr Gly Asp Gly Gly Ala		
	165	170 175
Asp Leu Leu Pro Leu Thr Gly Leu Thr Lys Arg Gln Gly Arg Thr Leu		
	180	185 190
Leu Lys Glu Leu Gly Ala Pro Glu Arg Leu Tyr Leu Lys Glu Pro Thr		
	195	200 205
Ala Asp Leu Leu Asp Glu Lys Pro Gln Gln Ser Asp Glu Thr Glu Leu		
	210	215 220
Gly Ile Ser Tyr Asp Glu Ile Asp Asp Tyr Leu Glu Gly Lys Glu Val		
225	230	235 240
Ser Ala Lys Val Ser Glu Ala Leu Glu Lys Arg Tyr Ser Met Thr Glu		
	245	250 255
His Lys Arg Gln Val Pro Ala Ser Met Phe Asp Asp Trp Trp Lys		
	260	265 270